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RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/377,675DATE: 09/02/1999  
TIME: 11:06:35

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This Raw Listing contains the General Information  
Section and up to first 5 pages.

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1 <110> APPLICANT: Olwin, Bradley B.  
2 Rosenthal, Richard S.  
3 <120> TITLE OF INVENTION: CHIMERIC FIBROBLAST GROWTH FACTOR PROTEINS, NUCLEIC  
4 ACID MOLECULES, AND USES THEREOF  
5 <130> FILE REFERENCE: 2848-32  
6 <140> CURRENT APPLICATION NUMBER: US/09/377,675  
7 <141> CURRENT FILING DATE: 1999-08-19  
8 <150> EARLIER APPLICATION NUMBER: 60/097,160  
9 <151> EARLIER FILING DATE: 1998-08-19  
10 <160> NUMBER OF SEQ ID NOS: 27  
11 <170> SOFTWARE: PatentIn Ver. 2.0  
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14 <212> TYPE: DNA  
15 <213> ORGANISM: chimeric sequence  
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17 <221> NAME/KEY: CDS  
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22 1 5 10  
23 tgg aaa aag gcg gct ggt tct atc act acc ctg cca gct ctg cca 97  
24 Trp Lys Lys Ala Ala Gly Ser Ile Thr Thr Leu Pro Ala Leu Pro  
25 15 20 25 30  
26 gaa gac ggt ggt tct ggt gcc ttc cca cca ggt cac ttc aaa gac cca 145  
27 Glu Asp Gly Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro  
28 35 40 45  
29 aaa cgt ctg tac tgc aaa aac ggt ggt ttc ttc ctg cgc atc cac ccc 193  
30 Lys Arg Leu Tyr Cys Lys Asn Gly Phe Phe Leu Arg Ile His Pro  
31 50 55 60  
32 gac ggc cga gtg gac ggg gtc cgc gag aag agc gac cca cac atc aaa 241  
33 Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys  
34 65 70 75  
35 cta caa ctt caa gca gaa gag aga ggg gtt gtg tct atc aaa gga gtg 289  
36 Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val  
37 80 85 90  
38 tgt gca aac cgt tac ctt gct atg aaa gaa gat gga aga tta cta gct 337  
39 Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala  
40 95 100 105 110  
41 tct aaa tgt gtt aca gac gag tgt ttc ttt ttt gaa cga ttg gag tct 385  
42 Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Glu Arg Leu Glu Ser  
43 115 120 125  
44 aat aac tac aat act tac cgg tca agg aaa tac acc agt tgg tat gtg 433

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45 Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr Ser Trp Tyr Val  
 46 130 135 140  
 47 gca ctg aaa cga act ggg cag tat aaa ctt gga tcc aaa aca gga cct 481  
 48 Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro  
 49 145 150 155  
 50 ggg cag aaa gct ata ctt ttt ctt cca atg tct gct aag agc gaa cag 529  
 51 Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser Glu Gln  
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 63 20 25 30  
 64 Gly Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro Lys Arg  
 65 35 40 45  
 66 Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp Gly  
 67 50 55 60  
 68 Arg Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu Gln  
 69 65 70 75 80  
 70 Leu Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala  
 71 85 90 95  
 72 Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser Lys  
 73 100 105 110  
 74 Cys Val Thr Asp Glu Cys Phe Phe Glu Arg Leu Glu Ser Asn Asn  
 75 115 120 125  
 76 Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr Ser Trp Tyr Val Ala Leu  
 77 130 135 140  
 78 Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro Gly Gln  
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95	1	5	10	
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97	Gln Glu Phe Ala Ala Ala Gly Ser Ile Thr Thr Leu Pro Ala Leu Pro			
98	15 20 25			
99	gaa gac ggt ggt tct ggt gcc ttc cca cca ggt cac ttc aaa gac cca			145
100	Glu Asp Gly Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro			
101	30 35 40 45			
102	aaa cgt ctg tac tgc aaa aac ggt ggt ttc ttc ctg cgc atc cac ccc			193
103	Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro			
104	50 55 60			
105	gac ggc cga gtg gac ggg gtc cgc gag aag agc gac cca cac atc aaa			241
106	Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys			
107	65 70 75			
108	cta caa ctt caa gca gaa gag aga ggg gtt gtg tct atc aaa gga gtg			289
109	Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val			
110	80 85 90			
111	tgt gca aac cgt tac ctt gct atg aaa gaa gat gga aga tta cta gct			337
112	Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala			
113	95 100 105			
114	tct aaa tgt gtt aca gac gag tgt ttc ttt ttt gaa cga ttg gag tct			385
115	Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Glu Arg Leu Glu Ser			
116	110 115 120 125			
117	aat aac tac aat act tac cgg tca agg aaa tac acc agt tgg tat gtg			433
118	Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr Ser Trp Tyr Val			
119	130 135 140			
120	gca ctg aaa cga act ggg cag tat aaa ctt gga tcc aaa aca gga cct			481
121	Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro			
122	145 150 155			
123	ggg cag aaa gct ata ctt ttt ctt cca atg tct gct aag agc gaa cag			529
124	Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser Glu Gln			
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137	20 25 30			
138	Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro Lys Arg Leu			
139	35 40 45			
140	Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp Gly Arg			
141	50 55 60			
142	Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu Gln Leu			
143	65 70 75 80			
144	Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala Asn			

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146 Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser Lys Cys  
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148 Val Thr Asp Glu Cys Phe Phe Glu Arg Leu Glu Ser Asn Asn Tyr  
149 115 120 125  
150 Asn Thr Tyr Arg Ser Arg Lys Tyr Thr Ser Trp Tyr Val Ala Leu Lys  
151 130 135 140  
152 Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro Gly Gln Lys  
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166 Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp  
167 35 40 45  
168 Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser  
169 50 55 60  
170 Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly  
171 65 70 75 80  
172 Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Glu  
173 85 90 95  
174 Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Ser  
175 100 105 110  
176 Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Pro  
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179 130 135 140  
180 Lys Ser  
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191 Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp  
192 35 40 45  
193 Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser  
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198 Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Glu  
199               85               90               95  
200 Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr  
201               100              105              110  
202 Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser  
203               115              120              125  
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216       20              25              30  
217 Gly Thr Lys Asp Arg Ser Asp Gly His Ile Gln Leu Phe Leu Cys Ala  
218       35              40              45  
219 Glu Ser Ile Gly Glu Val Tyr Ile Lys Ser Thr Glu Thr Gly Gln Phe  
220       50              55              60  
221 Leu Ala Met Asp Thr Asp Gly Leu Leu Tyr Gly Ser Gln Thr Pro Asp  
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223 Glu Glu Cys Leu Phe Leu Glu Arg Leu Glu Glu Asn His Tyr Asn Thr  
224       85              90              95  
225 Tyr Ile Ser Lys Lys His Ala Glu Lys His Trp Phe Val Gly Leu Lys  
226       100             105             110  
227 Lys Asn Gly Arg Ser Lys Leu Glu Pro Arg Thr His Phe Gly Gln Lys  
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242 Glu Ser Tyr Gly Glu Tyr Tyr Ile Lys Ser Thr Glu Thr Gly Gln Tyr  
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244 Leu Ala Met Asp Thr Asp Gly Leu Leu Tyr Gly Ser Gln Thr Pro Asn

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